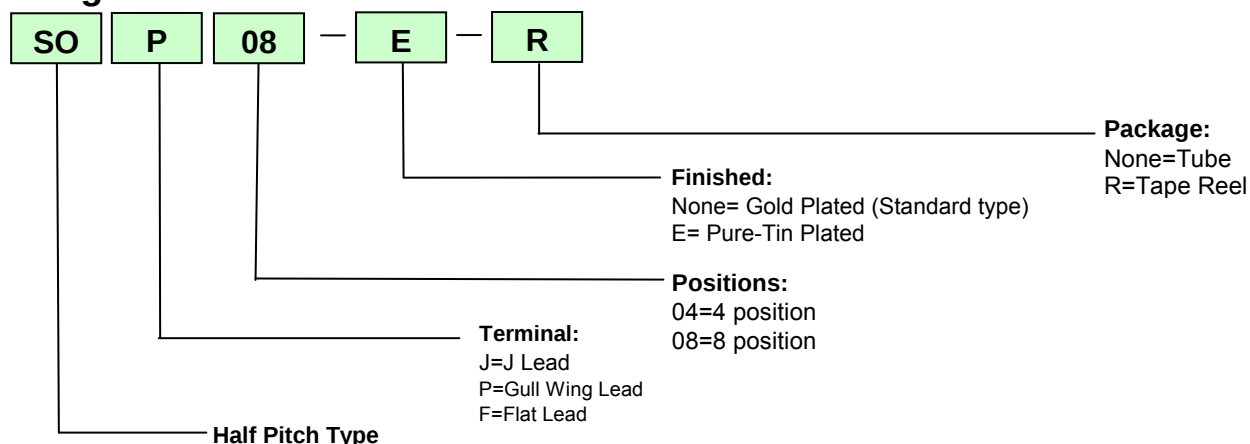


MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-001	Page
SO series			
Half Pitch Type			1/8

Ordering Information:



Specifications

◆ Contact Rating	Switching.....	25mA, 24VDC
	Non-Switching.....	100mA, 50VDC
◆ Contact Resistance	Initial.....	50mΩ Max.
	After Life Test.....	100mΩ Max.
◆ Insulation Resistance		100MΩ Min. at 500VDC
◆ Dielectric Strength		300VAC / 1 minute
◆ Operation Force		500g Max
◆ Travel :		0.7mm
◆ Mechanical Life		2,000 cycles (Min.)
◆ Electrical Life		2,000 cycles(Min.) 100Ma,50VDC
◆ Operation Temperature		-40°C ~ +85°C
◆ Storage Temperature		-40°C ~ +85°C

Soldering Information

◆ Hand Soldering

Soldering iron 30W or under at 270 for 2 sec max.

◆ Reflow Soldering

(1) Gold-plated series available 2~3 times process

(2) Tin-plated series available 1 time process

(3) 260 ±5 within 20 sec for reflow. In-line or Batch system. Apply reflow soldering only.

(4) Vapor Phase Heating (VPH) switch must with Tape sealed type

◆ Keep all actuators in " OFF " position during soldering and cleaning process.

Classification Reflow Profiles

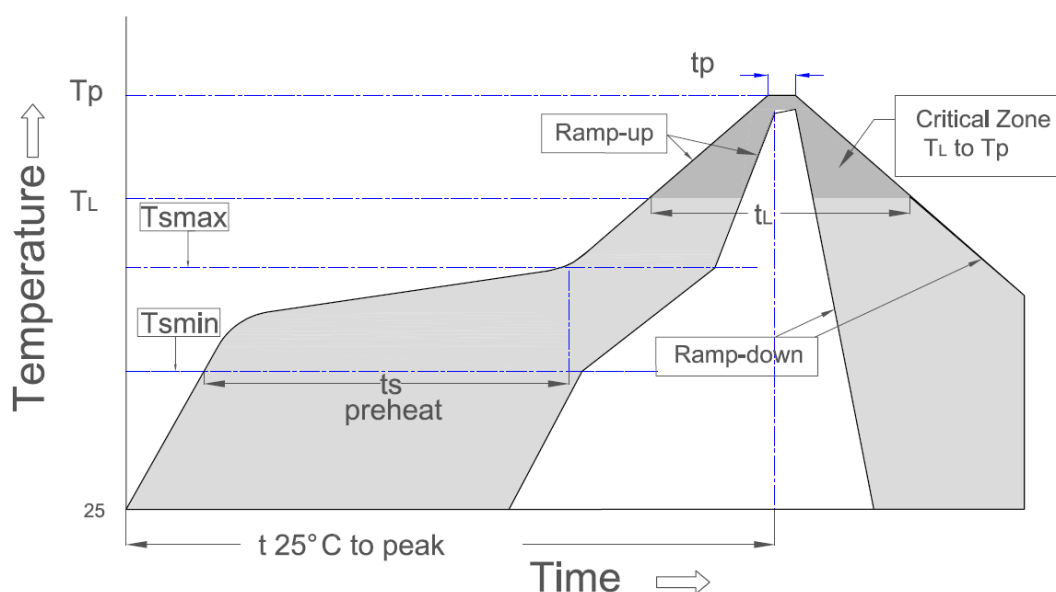
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T _{smax} to T _p)	3 °C/second max
Preheat: --Temperature Min (T _{smin}) --Temperature Max (T _{smax}) --Time (T _{smin} to T _{smax}) (ts)	150 200 60 ~ 180 seconds
Time maintained above: --Temperature (T _L) --Time (t _L)	217 60 ~ 150 seconds
Peak/Classification Temperature(T _p)	260 ±5
Time within 5 °C of actual peak Temperature (tp)	20~40 seconds
Ramp-Down Rate	6 °C/second max
Time 25 °C to Peak Temperature	8 minutes max

Note 1: All temperatures refer to topside of the package, measured on the package body surface.

Note 2: Time within 5 °C of actual peak temperature (tp) specified for the reflow profiles is a “supplier” minimum and “user” maximum.

The table copy from IPC/JEDEC J-STD-202C

Reflow Soldering Standard Conditions



MODEL SO series Half Pitch Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-003	Page
			3/8

Switch Operation and Taping

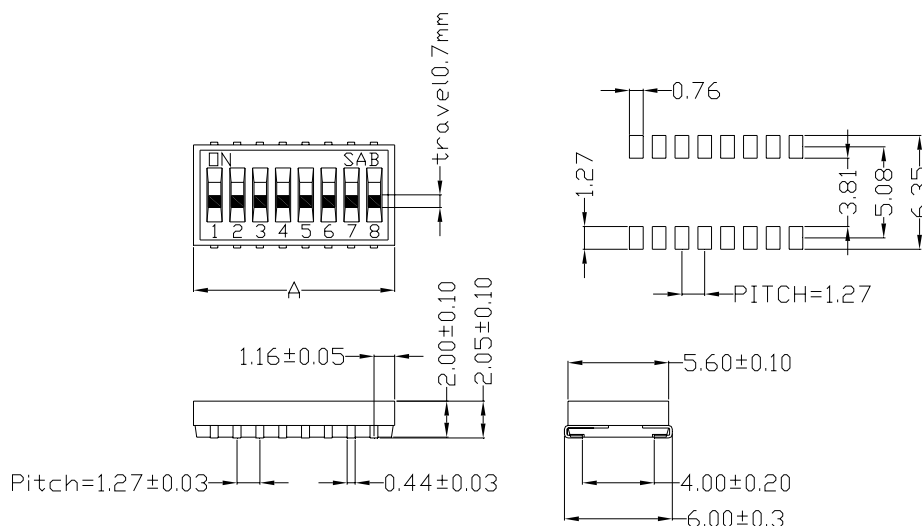
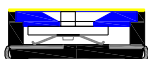
- (1) Use tweezers or ball-point pen for operation.
- (2) Flux cleaning should be done without removing the Tape.
- (3) If the tape is removed, it adheres less than before when it is placed back on, possibly causing flux inflow
- (4) Do Not Remove Tape sealed before Reflow processing
Ultrasonic cleaning not re-commended.

- ※ All switch must set in OFF position when through Soldering process .
- ※ Any flux enters the switch may influence contact function .

Materials:

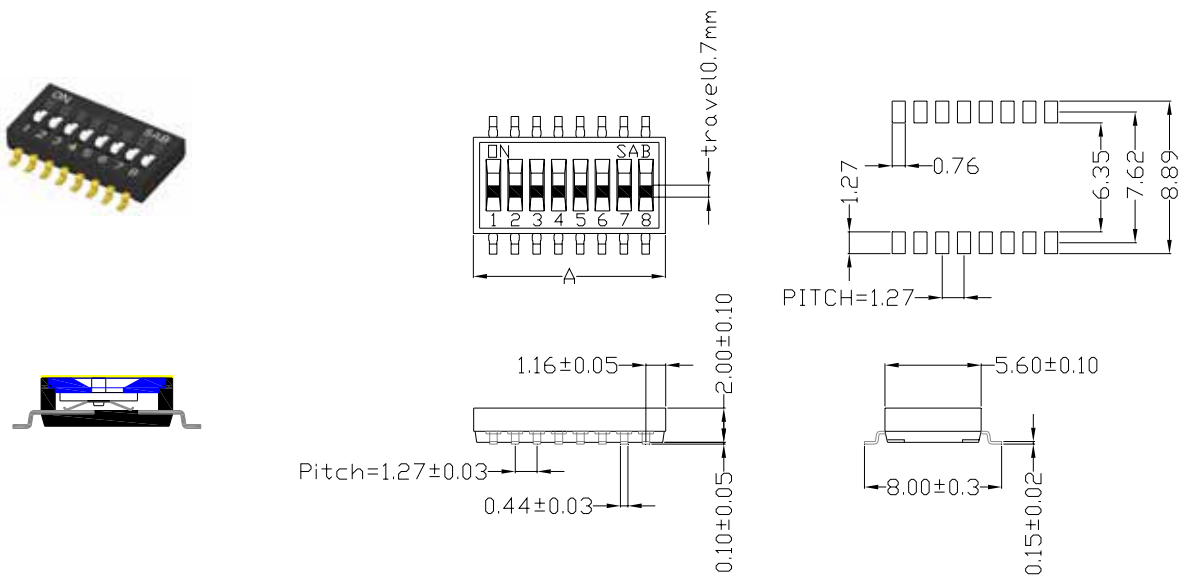
◆ Cover	PPS (UL 94V-0), Black
◆ Base	PPS (UL 94V-0), Black
◆ Actuator	PA46 (UL 94V-0), White
◆ Terminal Contact	Gold plated / Pure-Tin Plated
◆ Movable Contact	Gold plated / Pure-Tin Plated
◆ Terminal	Gold plated / Pure-Tin Plated
◆ Tape	Polyimide Film

SOJ

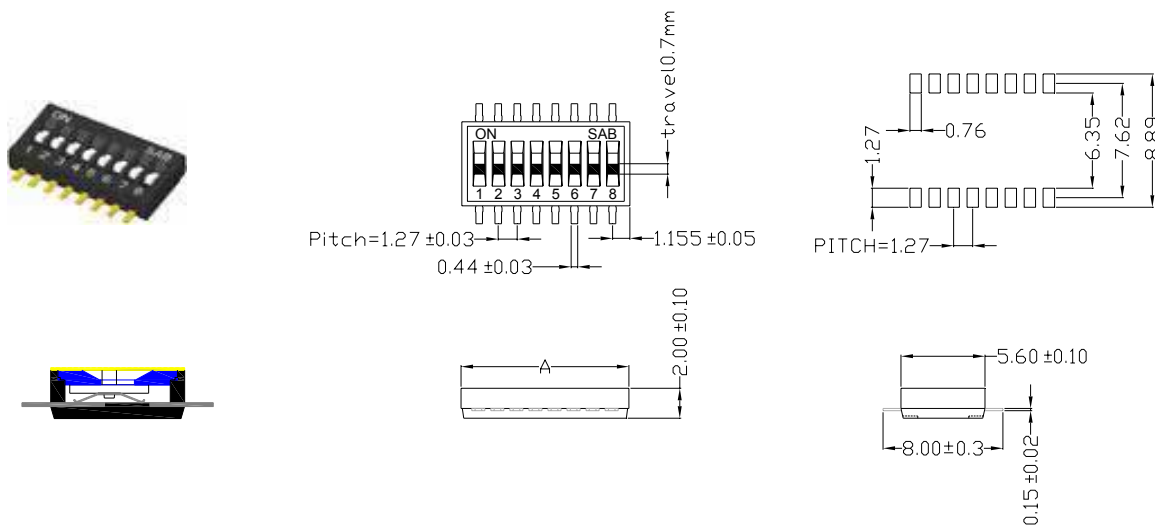


MODEL SO series Half Pitch Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-004	Page 4/8

SOP



SOF



MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-005	Page
SO series			
Half Pitch Type			5/8

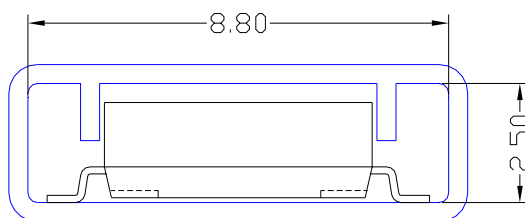
Part Number Table

No. Pos.	Dim. "A"	SMD Gold Plated Tape Sealed Tube Package	J Lead Tin Plated Tape Sealed Tape Reel	Flat Lead Gold Lead Tape Sealed Tape Reel
1	2.31	SOP01	SOJ01-E-R	SOF01-R
2	3.58	SOP02	SOJ02-E-R	SOF02-R
3	4.85	SOP03	SOJ03-E-R	SOF03-R
4	6.12	SOP04	SOJ04-E-R	SOF04-R
5	7.39	SOP05	SOJ05-E-R	SOF05-R
6	8.66	SOP06	SOJ06-E-R	SOF06-R
8	11.20	SOP08	SOJ08-E-R	SOF08-R
10	13.74	SOP10	SOJ10-E-R	SOF10-R
12	16.28	SOP12	SOJ12-E-R	SOF12-R

Tube Package:

POLE	1	2	3	4	5	6	8	10	12
TUBE	93(half)	125	90	70	60	50	40	30	25
BOX	18600	25000	18000	14000	12000	10000	8000	6000	5000
CTN 1	37200	50000	36000	28000	24000	20000	16000	12000	10000

SOP



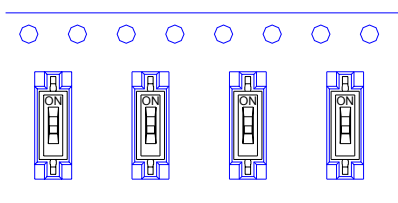
MODEL SO series Half Pitch Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-006	Page
			6/8

Tape & Reel package

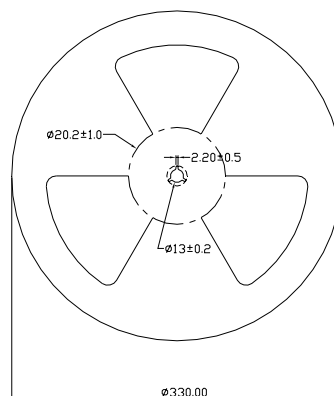
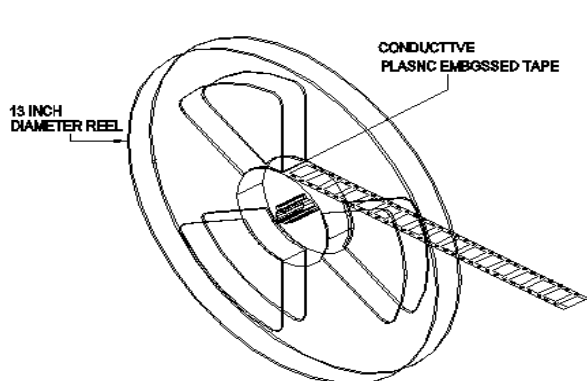
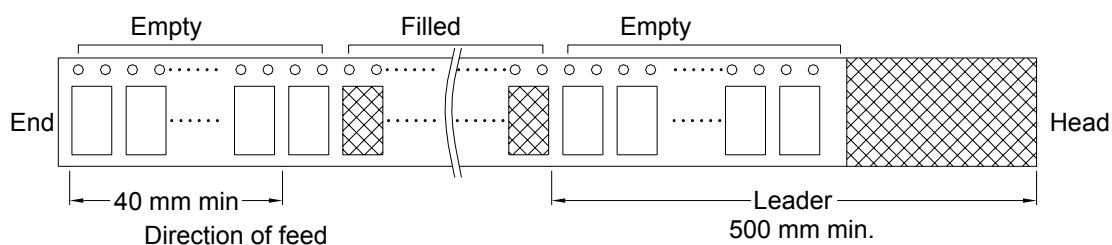
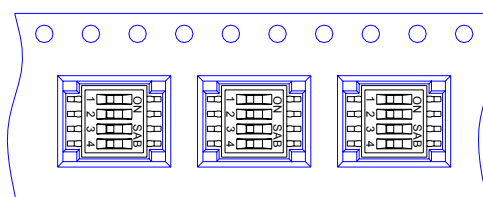
◆ SOP/SOJ/SOF

POLE	01	02	03	04	05	06	08	10	12
Pitch (mm)	8	8	8	12	12	12	12	12	12
Width (mm)	16	16	16	16	16	16	24	24	24
per Reel	3000	3000	3000	2000	2000	2000	2000	2000	2000

SOP/SOJ01~03



SOP04~SOP12

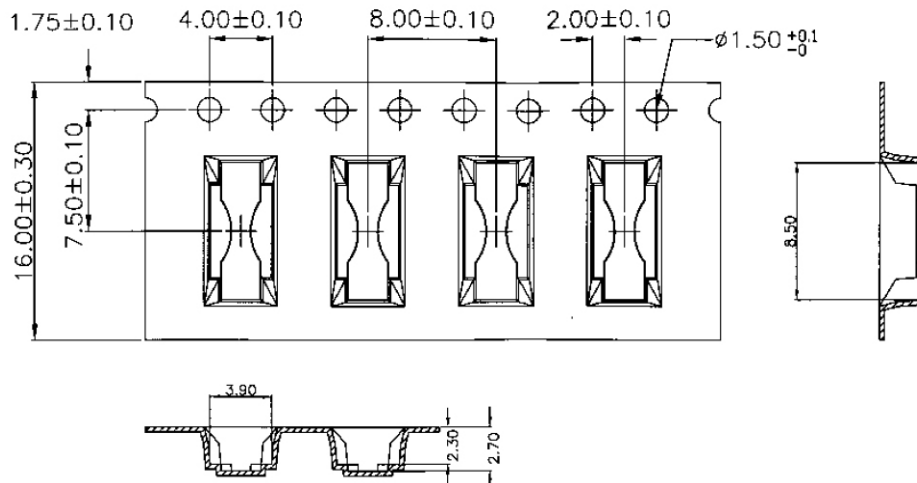


MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-007	Page
SO series			
Half Pitch Type			7/8

Carry Tape Table:

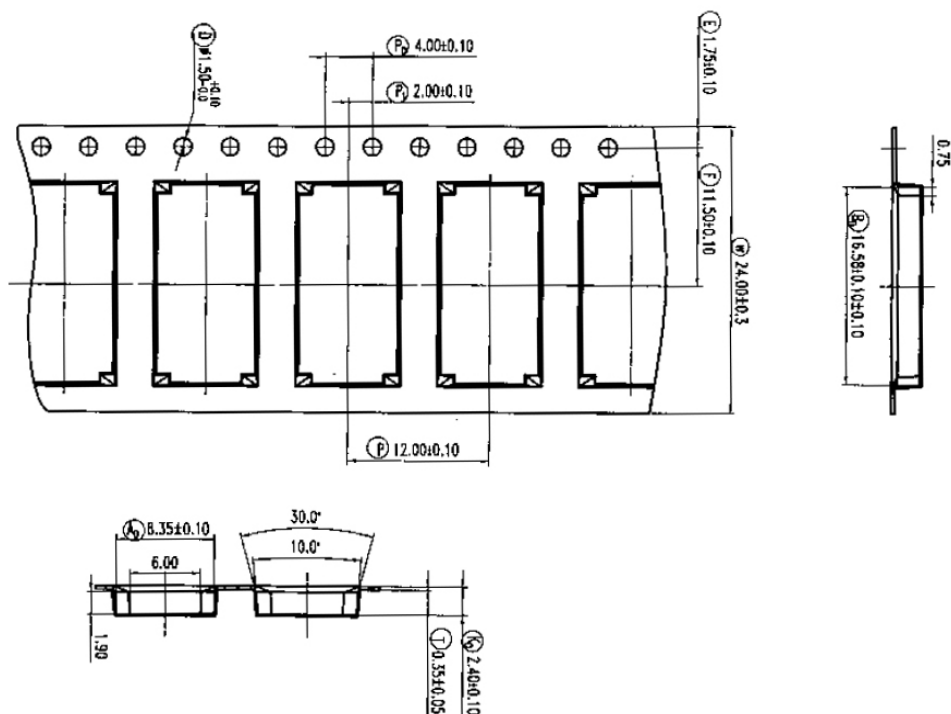
P/N.	Pitch(mm)	Thickness(mm)	Width(mm)	Sellotape(mm)	@Reel/BOX	Q'ty/Reel
SOP/J01	8	0.3	16	13.3	6	3000
SOP/J02	8	0.3	16	13.3		3000
SOP/J03	8	0.3	16	13.3		3000
SOP/J04	12	0.3	16	13.3		2000
SOP/J05	12	0.3	16	13.3		2000
SOP/J06	12	0.3	16	13.3		2000
SOP/J08	12	0.3	24	21.3	4	2000
SOP/J10	12	0.3	24	21.3		2000
SOP/J12	12	0.3	24	21.3		2000

16mm



MODEL SO series Half Pitch Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-008	Page 8/8

24mm



Box Dimension:

- ◆ Tube56cm × 12cm × 12cm
- ◆ Tape & Reel34cm x 12cm x 33cm

Carton Dimension:

- ◆ Tube CTN 1 / 2 Boxes.....58.5cm x 26.5cm x 16cm
- CTN 2 / 4 Boxes.....58.5cm x 26.5cm x 24cm
- ◆ Tape & Reel34cm x 26cm x 35cm